

Southeast Asian Fisheries Development Center

Aquaculture Department

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01 SEAFDEC/AQD Publications

Brochures and flyers

2009

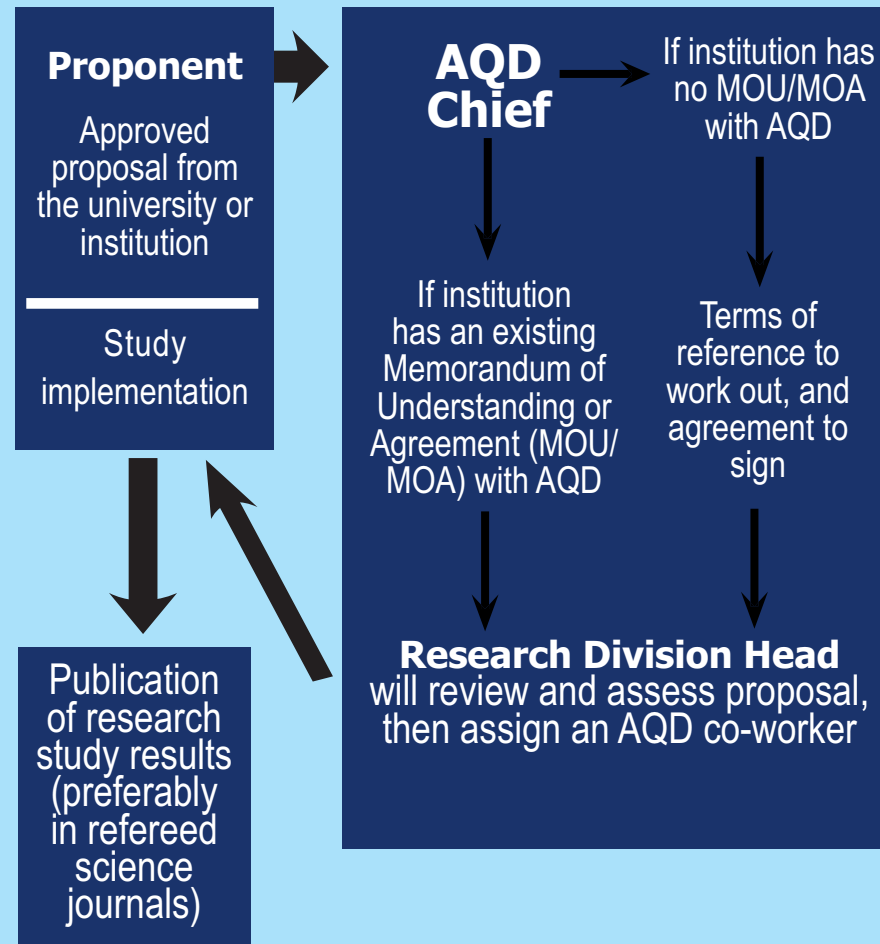
Research collaboration at SEAFDEC/AQD

Aquaculture Department, Southeast Asian Fisheries Development Center

<http://hdl.handle.net/10862/621>

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Flow chart for proposals



Sample research topics of students/institutions who collaborated with AQD:

- Comparison of the growth performance and survival of giant freshwater prawn in cages fed with natural food or commercially formulated feeds (**Hohenheim University, Stuttgart, Germany, 2008**)
- Comparison of characteristics of KHV isolates from Asia (**Fisheries Research Agency, Japan, 2004**)
- Insulin-like growth factor II (IGF-II) as molecular markers for egg quality in finfish and mudcrab (**Australian Center for International Agricultural Research, 2004**)
- Development of release strategies for stock enhancement of the tropical abalone *Haliotis asinina* (**International Foundation Science, 2003**)
- Improvement of growth and survival in cultured rabbitfish (*Siganus guttatus*) (**United States AID, 2000**)
- Development of bio-encapsulated feed for larval fish based on nutritionally enriched nematodes: free-living nematodes as feed for bighead carp larvae (**European Union, 1998**)
- Influence of some environmental factors on growth rate and agar quality of selected *Gracilaria* species found in Iloilo (**University of the Philippines Diliman, 1993**)
- Methionine requirement of milkfish (*Chanos chanos* Forsskal) juveniles (**University of the Philippines Visayas, 1990**)



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Southeast Asian Fisheries Development Center (SEAFDEC) is a regional treaty organization established in December 1967 to promote fisheries development in Southeast Asia. Its member countries are Brunei Darussalam, Cambodia, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam.

The Aquaculture Department (AQD) of SEAFDEC is one of the four departments. AQD is mandated to implement programs in research, technology verification & demonstration, and training & information dissemination in order to promote responsible aquaculture in Southeast Asia.

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Research Collaboration @ SEAFDEC/AQD



AQUACULTURE DEPARTMENT
Southeast Asian Fisheries Development Center
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Research at SEAFDEC Aquaculture Department (AQD) aims to develop and refine science-based aquaculture technologies, and strengthen responsible aquaculture in Southeast Asia.

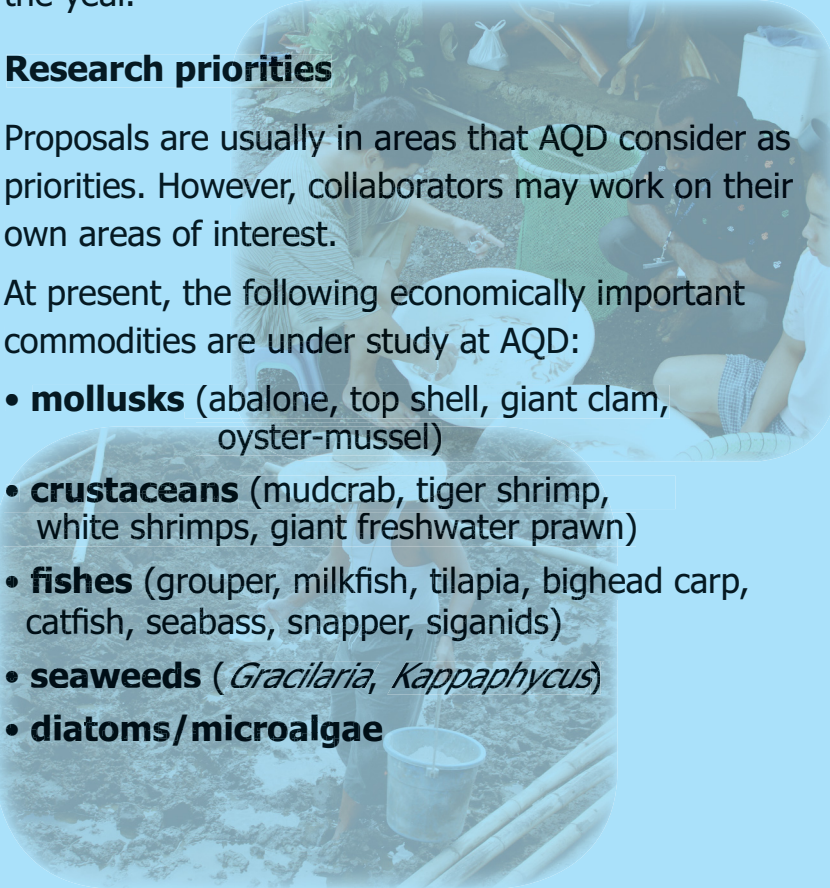
To uphold this goal, AQD welcomes research collaboration with academic and R&D institutions, non-government organizations, private sector, and government agencies in SEAFDEC member countries and other parts of the world. Proposals maybe submitted, assessed, and approved at anytime within the year.

Research priorities

Proposals are usually in areas that AQD consider as priorities. However, collaborators may work on their own areas of interest.

At present, the following economically important commodities are under study at AQD:

- **mollusks** (abalone, top shell, giant clam, oyster-mussel)
- **crustaceans** (mudcrab, tiger shrimp, white shrimps, giant freshwater prawn)
- **fishes** (grouper, milkfish, tilapia, bighead carp, catfish, seabass, snapper, siganids)
- **seaweeds** (*Gracilaria*, *Kappaphycus*)
- **diatoms/microalgae**



Collaboration may be on the various life stages of the above species (broodstock, hatchery, nursery, grow-out).

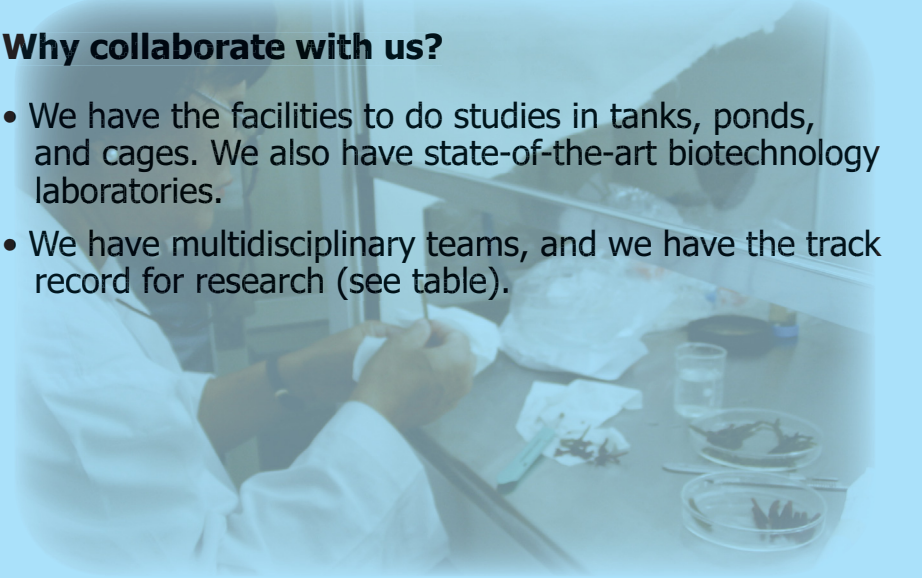
If the interest is on biotechnology, AQD has a well-equipped *Laboratory for advanced aquaculture technologies* and enclosed wet laboratories for the isolated confinement of hormone-treated or genetically manipulated commodities.

Studies that can be conducted at the biotechnology laboratories include:

- **molecular microbiology** (rapid disease detection and diagnosis)
- **molecular endocrinology and genetics** (growth enhancement and genetic characterization of wild stocks)
- **algal production** (strain improvement in seaweeds and high density production of algae used as food for fish, crustacean, and mollusk larvae)
- **fish feed technology** (nutrient enhancement and development of low-polluting diets)

Why collaborate with us?

- We have the facilities to do studies in tanks, ponds, and cages. We also have state-of-the-art biotechnology laboratories.
- We have multidisciplinary teams, and we have the track record for research (see table).



Number of papers published by AQD researchers from 1976 to September 2008

Commodity	ISI-CC covered science journals	Other science journals	Proceedings/ books
Abalone	14	2	4
Bighead carp	11	5	13
Catfish	18	3	10
Freshwater prawn	1	-	3
Grouper	29	9	37
Milkfish	121	40	48
Mudcrab	26	14	13
Mollusks (other than abalone)	15	7	12
Seabass	42	7	19
Seaweeds	33	13	12
Siganids	25	5	14
Snapper	11	1	11
Tiger shrimp	141	58	85
Tilapia	42	15	27
Discipline			
Fish health	93	21	85
Larval food, feed development and fish nutrition	191	43	95
Stock enhancement	4	1	4
Mangroves, aquatic ecology and environment	71	22	59
Socioeconomics and coastal fisheries resources management	26	21	25
Others	31	10	37

Note: Some papers are cross-cited in several commodities though the total number of AQD’s published papers since 1976 to September 2008 is 1,263

ISI-CC is Institute of Scientific Information’s Current Contents

AQD research facilities

